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Databricks Certified Associate Developer for Apache Spark 3.5 - Python Sample Questions (Q48-Q53):

NEW QUESTION # 48

A data scientist is analyzing a large dataset and has written a PySpark script that includes several transformations and actions on a DataFrame. The script ends with a collect() action to retrieve the results.

How does Apache Spark™'s execution hierarchy process the operations when the data scientist runs this script?

- A. Spark creates a single task for each transformation and action in the script, and these tasks are grouped into stages and jobs based on their dependencies.
- B. The script is first divided into multiple applications, then each application is split into jobs, stages, and finally tasks.
- C. The entire script is treated as a single job, which is then divided into multiple stages, and each stage is further divided into tasks based on data partitions.
- D. The collect() action triggers a job, which is divided into stages at shuffle boundaries, and each stage is split into tasks that operate on individual data partitions.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Apache Spark, the execution hierarchy is structured as follows:

Application: The highest-level unit, representing the user program built on Spark.

Job: Triggered by an action (e.g., collect(), count()). Each action corresponds to a job.

Stage: A job is divided into stages based on shuffle boundaries. Each stage contains tasks that can be executed in parallel.

Task: The smallest unit of work, representing a single operation applied to a partition of the data.

When the collect() action is invoked, Spark initiates a job. This job is then divided into stages at points where data shuffling is required (i.e., wide transformations). Each stage comprises tasks that are distributed across the cluster's executors, operating on individual data partitions.

This hierarchical execution model allows Spark to efficiently process large-scale data by parallelizing tasks and optimizing resource utilization.

NEW QUESTION # 49

A developer initializes a SparkSession:

```
spark = SparkSession.builder \
    .appName("Analytics Application") \
    .getOrCreate()
```

```
spark = SparkSession.builder \
    .appName("Analytics Application") \
    .getOrCreate()
```

Which statement describes the sparkSession?

- A. A SparkSession is unique for each appName, and calling getOrCreate() with the same name will return an existing SparkSession once it has been created.
- B. The getOrCreate() method explicitly destroys any existing SparkSession and creates a new one.
- C. A new SparkSession is created every time the getOrCreate() method is invoked.
- D. If a SparkSession already exists, this code will return the existing session instead of creating a new one.

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

According to the PySpark API documentation:

"getOrCreate(): Gets an existing SparkSession or, if there is no existing one, creates a new one based on the options set in this builder." This means Spark maintains a global singleton session within a JVM process. Repeated calls to getOrCreate() return the same session, unless explicitly stopped.

Option A is incorrect: the method does not destroy any session.

Option B incorrectly ties uniqueness to appName, which does not influence session reusability.

Option D is incorrect: it contradicts the fundamental behavior of getOrCreate().

(Source: PySpark SparkSession API Docs)

NEW QUESTION # 50

What is the risk associated with this operation when converting a large Pandas API on Spark DataFrame back to a Pandas DataFrame?

- A. Data will be lost during conversion
- B. The conversion will automatically distribute the data across worker nodes
- **C. The operation will load all data into the driver's memory, potentially causing memory overflow**
- D. The operation will fail if the Pandas DataFrame exceeds 1000 rows

Answer: C

Explanation:

When you convert a large pyspark.pandas (aka Pandas API on Spark) DataFrame to a local Pandas DataFrame using .toPandas(), Spark collects all partitions to the driver.

From the Spark documentation:

"Be careful when converting large datasets to Pandas. The entire dataset will be pulled into the driver's memory." Thus, for large datasets, this can cause memory overflow or out-of-memory errors on the driver.

Final answer: D

NEW QUESTION # 51

3 of 55. A data engineer observes that the upstream streaming source feeds the event table frequently and sends duplicate records. Upon analyzing the current production table, the data engineer found that the time difference in the event_timestamp column of the duplicate records is, at most, 30 minutes.

To remove the duplicates, the engineer adds the code:

df = df.withWatermark("event_timestamp", "30 minutes")

What is the result?

- **A. It removes duplicates that arrive within the 30-minute window specified by the watermark.**
- B. It accepts watermarks in seconds and the code results in an error.
- C. It removes all duplicates regardless of when they arrive.
- D. It is not able to handle deduplication in this scenario.

Answer: A

Explanation:

In Structured Streaming, a watermark defines the maximum delay for event-time data to be considered in stateful operations like deduplication or window aggregations.

Behavior:

df = df.withWatermark("event_timestamp", "30 minutes")

This sets a 30-minute watermark, meaning Spark will only keep track of events that arrive within 30 minutes of the latest event time seen so far. When used with:

df.dropDuplicates(["event_id", "event_timestamp"])

Spark removes duplicates that arrive within the watermark threshold (in this case, within 30 minutes).

Why other options are incorrect:

A: Watermarks do not remove all duplicates; they only manage those within the defined event-time window.

B: Watermark durations can be expressed as strings like "30 minutes", "10 seconds", etc., not only seconds.

D: Structured Streaming supports deduplication using withWatermark() and dropDuplicates().

Reference (Databricks Apache Spark 3.5 - Python / Study Guide):

PySpark Structured Streaming Guide - withWatermark() and dropDuplicates() methods for event-time deduplication.

Databricks Certified Associate Developer for Apache Spark Exam Guide (June 2025): Section "Structured Streaming" - Topic:

Streaming Deduplication with and without watermark usage.

NEW QUESTION # 52

A developer runs:

```
df.write.partitionBy("color", "fruit").parquet("/path/to/output")
```



What is the result?

Options:

- A. It stores all data in a single Parquet file.
- B. It throws an error if there are null values in either partition column.
- C. It creates separate directories for each unique combination of color and fruit.
- D. It appends new partitions to an existing Parquet file.

Answer: C

Explanation:

The `partitionBy()` method in Spark organizes output into subdirectories based on unique combinations of the specified columns:

e.g.

/path/to/output/color=red/fruit=apple/part-0000.parquet
/path/to/output/color=green/fruit=banana/part-0001.parquet

This improves query performance via partition pruning.

It does not consolidate into a single file.

Null values are allowed in partitions.

It does not "append" unless `.mode("append")` is used.

NEW QUESTION # 53

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